**3.4 – Area of a Parallelogram**

Name:\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_

**Lesson Focus: Mathletes will learn how find the area of a parallelogram**

**Review from last year:**

You may recall how to find the area of a rectangle from last year. With your partner, use an example and write how you would find the area. Please be ready to share your ideas with the class ☺

<http://www.youtube.com/watch?v=3KNM9Uv-C5g>

**New Concept of the Day…Finding the area of a parallelogram!!! Yay!**

First…what is a parallelogram? With your partner, please draw one below.

**Some things to think about when you are drawing:**

1)Why do you think this quadrilateral is named parallelogram?

2)How do you show which lines are parallel?

3) How do you show which lines are the same length?

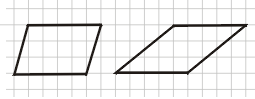
4) Label the height and base

[**http://www.mathopenref.com/parallelogramarea.html**](http://www.mathopenref.com/parallelogramarea.html)

**Discover a way to determine the area of a parallelogram:**

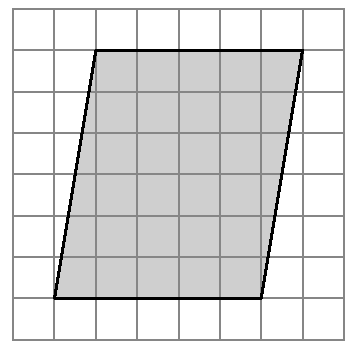
Look at the parallelograms below. How many ways can we determine the area of a parallelogram?

**Ex 1 These parallelograms have the same area**

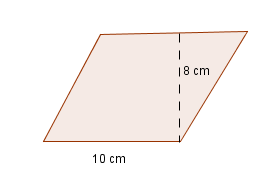


**How can we determine their areas?**

**Ex2 Let’s determine the area of this one below**



**Ex 3 Can you determine the area without the gridlines**



<http://geogebracentral.blogspot.com/2011/09/parallelogram-area-proof.html>

To try at home:

* P. 104, # 1-3, 5, 7, 9, 11
* Still Good? # 13-18, MathLink
  + - ProStar? # 19, 20